Creating a New Query (Cohort Mode)

Upon logging in, select **Create a new blank query** to proceed (or **Select an existing query** to use a previously created query).



From the filters listed in the left panel, select a filter, for example, **Demographics**, to begin defining criteria for your query.

Cohort Discovery Tool	Logged in as Logout
	New Query Open Query
Upload List	Currently Selected Query
Semographics	Lupus Cohort
Encounters	cohort query mode 🗓 🖉 🔶 Cohort Query M
Diagnoses	Cohort Discovery Results
It providence	Initial Count: 3,723,759 patients
	64,050,855 encounters
Outpatient Medications	Final Count: 3,723,759 patients 84.050.893 encounters
Medication Administration	Run At-a-Glance Get Your Data
Laboratory	
Waveform	
🗞 Biorepository	

Demographics are *patient-level* characteristics available from the administrative registration systems (**not** encounter-level data, in other words, they do not change from one encounter to another).

Select the checkboxes beside the characteristics to *include* in your query. De-select items you do **not** wish to include. For example, to find only Female patients, de-select Male and Unknown under Gender. Click **Add** to *add* these criteria to your query.

Cohort Discovery Tool	Demographics	
Upload List	Patient characteristics from with MiChart information. 1	administrative registration systems. The data is a combina These characteristics are at the Patient level and do not cha
Demographics	Gender	🖉 Female 📃 Male 📃 Unknown
Encounters		
Diagnoses	Marital Status	🗹 Married 🛛 Unmarried 🖉 Unknown
// Procedures	Race	🗷 African American
Cutostient Medications		American Indian or Alaska Native
		■ Asian ✓ Caucasian
Medication Administration		✓ Hispanic
		✓ Middle Eastern
Laboratory		🗹 Multi Racial
		Native Hawaiian and Other Pacific Islander
Waveform		Patient Refused Other
		Coner Inknown
<u>w</u> 555 (pository)	Current Vital Status:	
	carrent mar blattabi	✓ Alive / Unknown
	* Age criteria can be adjust	ted on Encounters tab.

Cohort Results

As DataDirect retrieves data to match the selected criteria, the right panel of the screen displays aggregate counts. Your query is also saved to your individual profile in DataDirect.

Cohort Discovery Tool	Changes SavedNext Steps	Logged in a Logout
💭 Upload List	Your changes have been saved. Processing of your query will begin in the background. As your results come in. you will see the them appear on the right side of the screen.	New Query Open Query
bemographics	You may continue to make changes to your query even while it is processing.	Lupus Cohort
Encounters	If you have no more changes to make, then you can leave your query to process in the background. You may go work on a different query (choose "create a new	cohort query mode 1 2
👌 Diagnoses	query from the right side of the screen; or even close your proviser completely. You can return to this query at any time to see the progress or get the final results once it is complete.	Initial Count: 3.723.760 millents
// Procedures		84,050,970 encounters
Outpatient Medications		Demographics
🦉 Medication Administration		marital status: Married or Unmarried or Utiknown
Laboratory		Face: African American or American Indian or Alaska Native or Asian or Caucasian or
Waveform		Hispanic or Middle Eastern or Multi Racial or Native Hawalian and Other Pacific Islander or Paciety Perferences (Islander
Biorepository		vital status: Alive / Unknown
		Final Counts 1.090/343 patients
		Run At-a-Glance Get Your Data

Results include 1) *initial patient and encounter counts,* 2) *saved criteria*, and 3) *final aggregate count of patient data matching your query*. As you build your query, check the right panel to verify that your criteria have been added.





Tip: Begin typing to filter the selection criteria. For example, in the Inpatient Service Location field, type 5D to narrow your search. DataDirect includes aliases for locations, e.g., 8D5 or SICU.

Click or highlight the item to select it for a field.

registration systems. The data real time admission and visit of change from one encounter to encounter. Click here for more * Please note that outpatient encounter that coardship a laborithm and will be	is a combination of historical data from HSDW starting in 2000 to lata consistent with MiChart information. These characteristics may b another and reflect the information known at the time of that e details encounter location data is being reviewed to create an easy-to-use or available in each 2015
Admit date / visit date	01/01/2000 to 03/30/2015
Age at the Date of Service	0 year(s) ▼ to 150 year(s) ▼
Patient Class	 ✓ Emergency ✓ Inpatient ✓ Outpatient ✓ Preadmit ✓ Other
Inpatient Service Location	5d 5D 24858 times 80NS, 80S, SICU, 80, 8081
Primary Provider (search by name, pager #)	No provider has been selected

Review the updated result panel on the right side of the screen each time you click "**Add**" to note the additional criteria have been *saved* to your query. In this example, both Demographics and Encounter criteria have been added to the query, and an aggregate count has been generated:



Select **Diagnosis**, and begin typing the desired diagnosis name (or associated ICD-9 code) into the Diagnosis Code field. Highlight the code you desire, then click **Add Selected**.

Upload List	Inpatient, ED, and outpatient IC Click here for more details	D9 diagnoses derived from the billing process. ICD9 diagnoses data	are available from 2006 to th	e first of the previous month.
Semographics	* Please note that problem sum	mary list diagnoses listed in MiChart are not currently available, but	will be available in mid 2015	
Encounters	Billing source	Facility •		
A Diagnoses	Diagnosis code	lupusl		
% Procedures		0 item(s) selected	Add Selected	
Outpatient Medications	Present on admission 🤎	Top Result		
2010 - C	Diagnosis Type	Systemic lupus erythematosus [710.0]	141382 times	Top Results -
Medication Administration		Lupus erythematosus [695.4]	8083 times	most frequent
Laboratory		Discoid lupus erythematosus of eyelid [373.34]	35 times	
		Discharge Diagnoses		(
Waverorm	* Show ICD9 biorarchy	Discoid lupus erythematosus of eyelid [373.34]	35 times	Alphabatic listin
è Biorepository	Show ICDS merarchy	Lupus erythematosus [695.4]	8083 times	Alphabetic listing
	Inclusion/Exclusion	Systemic lupus erythematosus [710.0]	141382 times	
	Include selected diagnoses			
	No diagnoses have been sele	cted		
	Cancel Add			

As you select a diagnosis code, the 'parent' ICD-9 code and its associated 'child' ICD-9 codes will be displayed and automatically **included**. De-select (click the red X) any individual code you wish to remove from the suggested list. "Inclusion" is the default selection.

* Show ICD9 hierarchy Inclusion/Exclusion	
Include selected diagnoses Systemic lupus erythematosus [710.0] Systemic sclerosis [710.1] Sicca syndrome [710.2]	
Dermatomyositis [710.3] Polymyositis [710.4] Eosinophilia myalgia syndrome [710.5] Other specified diffuse diseases of connective tissue [710.8] Unspecified diffuse connective tissue disease [710.9]	
Cancel Add	tion to save it to your query.



atient, ED, and outpatien k here for more details ease note that problem s	t ICD9 diagnoses derived from the billing process. ICD9 dia summary list diagnoses listed in MiChart are not currently a	gnoses data are available from 2006 to the first of the vailable, but will be available in mid 2015	previous month.
ing source	[Search all sources] +		
agnosis code	diabetes	A 4	
description	o rem(s) selected	Add Selected	
esent on admission 💿	Top Result		
agnosis Type	Diabetes mellitus without mention of comp unspecified type, not duted as uncontrolled [lication, type II or ⁹¹²⁵⁷⁷ times 250.00]	
	 Diabetes mellitus without mention of comp [juvenile type], not stated as uncontrolled [25 Diabetes mellitus without mention of comp unspecified type, uncontrolled [250.02] 	lication, type I 1/2548 times 0.01] lication, type II or ^{161839 times}	
now ICD9 hierarchy Inclusion/Exclusion	Diabetes with neurological manifestations, unspecified type, not stated as uncontrolled [type II or 87087 times 250.60]	
Include selected diagnos	es Discharge Diagnoses	91 more	
ystemic lupus erythema		4253 times	8
ancel Add	 Diabetes mellitus [253.5] 	1 times	
	 Diabetes melitus complicating pregnancy, 	childbirth, or the 0 times	
	puerperium [648.0]		
	Diabetes mellitus of mother, complicating childbirth, or the puerperium, antepartum cor [648.03]	pregnancy, 24772 times idition or complication	
move any "chile	d" ICD9 codes that you do not wish t	91 more to keep (by clicking the red X for	each).
Inclusion/Exclusio	n		
Include selected dia	gnoses		
<mark>Systemic lupus e</mark> Diabetes mellitus wi Diabetes mellitus Diabetes mellitus Diabetes mellitus	rythematosus [710.0] thout mention of complication, type II or unspo- s without mention of complication, type I [juvenile s without mention of complication, type II or unspo- s without mention of complication, type I [juvenile	cified type, not stated as uncontrolled [25 type], not stated as uncontrolled [250.01] crified type, uncontrolled [250.02] type], uncontrolled [250.03]	
ancel Update			
ck Update (botl	n conditions will be listed, as below)		
Inclusion/Exclusion	on		
Include selected dia	gnoses		
	ervthematosus [710.0]		
Systemic lupus e		14 1	

DataDirect will display the codes within the same 'criteria' box on the right side of the screen, indicating that the retrieved results include patients with code 710.0 (Lupus) **OR** patients with code 250.0 (Diabetes).

present on admission: any	
diagnosis type: admit or primary or secondary or comorbidity/complication or other include codes: 710.0 or 250.00	Includes diagnoses codes: 710 (Lupus) OR
18,342 patients 168,761 encounters	250 (Diabetes)



Build an additional Data Source (Diagnosis) by *returning* to the main filter list. Click **Diagnoses**, enter Diabetes into the Diagnosis code field, and click **Add** Selected to create a *new*, *separate criteria*.



The additional required criteria appears as a *separate* criteria box in the right hand panel, and the narrowed query results show a far more limited population of patients – only those patients who possess BOTH of the listed diagnosis codes (710 **and** 250).



Separate Diagnoses Criteria filters represent "AND" logic – patients who have Lupus AND Diabetes Each of the displayed criteria boxes in the right-hand panel represents an "AND" statement – in other words, all retrieved patients must possess ALL of these criteria:



Continue to build and refine your query using Data Sources on the left-hand panel. Refer to the instructions *inside* each filter panel to determine the source and details for the information available.

Cohort Discovery Tool	Laboratory Laboratory data inclu current day. Click he	ude both ordered and results. There is a live feed of re for more details	available lab data dating from 2000 to
Demographics	UM Pathology	adna	
Encounters	Test Name	0 item(s) selected	Add Selected
A Diagnoses	Date of Observation	Exact Match	
// Procedures		ANTI-dsDNA ANTIBODY [Order: ADNA]	72,295 times
Outpatient Medications	✓ Inclusion/Exclu Include selected	ANTI-dsDNA ANTIBODY [Result: ADNA]	71,059 times
Medication Administration	No labs have been	ANTI-dsDNA ANTIBODY [Order: ADNA]	72,295 times
Laboratory	Cancel Add	Laboratory Results	laboratory results in alphabetical order
Waveform		ANTI-dsDNA ANTIBODY [Result: ADNA]	71,058 times
Biorepository			

If you wish to retrieve data related to Laboratory collections, you may select details for *Ordered* and well as *Resulted* Laboratory tests.

When you select Laboratory *Results* data, you may "include" or "exclude" results within specific value ranges. Note, specifing a value range only works for lab values that are <u>numeric</u> (as opposed to "pos," "neg")

NTI-dsDNA AN	Any Value	T		and	×
ancel Add			2		
incel Add					